MYCOTAXON

Volume 112, pp. 1–4 *April–June 2010*

Type specimens in the Mycological Herbarium "Albert S. Muller" (VIA), Venezuela

Thamara Rojas, Denisse Caruso,
Ninoska Pons & Diego Diamont

trojas@inia.gob.ve
Instituto Nacional de Investigaciones Agrícolas
Centro Nacional de Investigaciones Agropecuarias
Departamento de Protección Vegetal, Maracay, 2101, Venezuela

Abstract — One hundred and ninety four type specimens held in the Mycological Herbarium "Albert S. Muller" (VIA) are listed. Ninety-eight relate to anamorphic fungi, 59 to *Ascomycota*, 36 to *Basidiomycota,* and one to *Oomycota*. The complete annotated collection list is available on: http://www.mycotaxon.com/resources/weblist.html.

Key words — Latin America, Neotropical fungi, reference collections

Introduction

The dried fungal reference collections in Latin America have been consistently neglected. Some important collections survive, but they remain little known even when holding valuable material, particularly type specimens that are essential in systematic research and the revision of taxa.

One example is the Mycological Herbarium "Albert S. Muller" (VIA) at the Instituto Nacional de Investigaciones Agrícolas of Venezuela. Founded in 1937, VIA remained inactive for almost 40 years (between 1941 and 1982) in the absence of systematic mycologists.

The reorganization of the herbarium, initiated in 1982, has involved several activities to fulfill basic requirements, such as finding an adequate space for the specimens, founding a library and a laboratory, and training of human resources. These tasks are still in progress.

An inventory of the original herbarium reveals that although much previously listed (Ciccarone 1948) material has been lost, some nomenclatural types remain among the specimens, including many from Venezuela.

An updated list of the VIA types is provided in this paper.

Materials and methods

Label information was recorded from all "type"-designated specimens. Original descriptions were scanned in order to confirm protologue data. When the literature associated with protologues was checked, some other holotypes and paratypes deposited in VIA and not previously labeled as "types" were detected.

Collections designated as "sp. nov." bearing names that could not be traced in the literature or in Index Fungorum (2008) are not included in the list. Holotype, isotype, lectotype, paratype, syntype, topotype, and similar terms have been included whenever this condition was clearly confirmed for the specimen, either on its label or in scanned related publications (electronic or printed). Information about hosts, collection sites, names of collectors, dates of collection and acronyms of reference collections holding duplicates are included.

The fungal taxa are systematically arranged in accordance with Index Fungorum (2008); abbreviations of authors of fungal names are given according to Kirk & Ansell (1992). Acronyms of reference collections follow Holmgren & Holmgren (2008).

Results

One hundred and ninety four type specimens are listed. Ninety-eight relate to anamorphic fungi, 59 belong to *Ascomycota*, 36 to *Basidiomycota,* and one to *Oomycota*. A summary is presented below, and the complete annotated specimen list is available on

http://www.mycotaxon.com/resources/weblist.html.

[Types from Venezuela are indicated by an asterisk (*).]

Acremonium *exiguum,* ***Aecidium*** *hymenocallidis*,* ***Anthracoidea*** *unciniae*,* ***Antimanoa*** *grisleae*,* ***Asteridiella*** *vilis* var. *caracacensis*,* ***Asterina*** *orthosticha*,* ***Asterinella*** *bredemeyerae*,* ***Auerswaldiella*** *disciformis*;*

Bagnisiopsis *tovarensis*, B. translucens*,* ***Burrillia*** *sagittariae*;*

Calothyrium *jahnii*,* ***Cercospora*** *alabamensis, C. angolensis, C. apiicola*, C. aragonensis*, *C. aurantia, C. batatas* Henn., *C. beticola, C. carbonacea, C. cordobensis, C. crotalariae* Syd.**, C. curatellae*, C. cyclantherae*, C. cylindrata, C. dioscoreae-bulbiferae, C. ecliptae*, C. fagopyri* Chupp & A.S. Mull.**, C. fuchsiae*, C. fusimaculans, C. hyptidicola*, C. ipomoeae, C. ipomoeae-pedis-caprae, C. ipomoeae-purpureae, C. jaguarensis*, C. lanugiflori*, C. lonchitidis*, C. marcelliana*, C. melanotes*, C. mirandensis*, C. monochaeti*, C. nubilosa, C. oldenlandiae, C. oxalidiphila*, C. pachyderma, C. passifloricola*, C. pittieri*, C. poincianae*, C. salpianthi*, C. sorghi, C. spilosticta*, C. stuckertiana, C. tokoroi, C. triumfettae*, C. turbinae, C. uramensis*, C. viridula, C. zeae-maydis,* ***Cercosporella*** *indica, C. ugandensis, C. yadavii,* ***Cercosporidium*** *venezuelanum*,* ***Cicinnobella*** *heterothea*,* ***Cintractia***

oreoboli, ***Colletotrichum*** *jahnii*,* ***Cordyceps*** *venezuelensis*,* ***Creonectria*** *discostiolata*, C. macrosporicola*,* ***Cyclomyces*** *gigas*;*

Dactylaria *dioscoreae,* ***Dermatosorus*** *cyperi*,* ***Diabolidium*** *calliandrae*,* ***Dialacenium*** *cissi*,* ***Dimeriellina*** *nervisequens*,* ***Doassansia*** *epilobii;*

Elsinoë *pruni*,* ***Eutypella*** *aggregata*;*

Glabrotheca *aciculispora*,* ***Glomerella*** *erythrinae*,* ***Goplana*** *ribis-andicolae*;*

Hemidothis *pittieri**;

Leptosphaeria *cryptica*,* ***Leptosporella*** *lignicola*,* ***Leptosporina*** *aciculospora*;*

Macrosporium *dioscoreae,* ***Melampsora*** *euphorbiae-geniculatae*,* ***Meliola*** *venezuelana*,* ***Mycosphaerella*** *erythrinicola*, M. fijiensis, M. fijiensis* var. *difformis, M. pittieri*, M. samaneae*, M. venezuelensis*,* ***Mycovellosiella*** *boldoae*, M. deigtonii, M. fujikuroi,* ***Myrothecium*** *renaudii**;

Oberwinkleria *anulata*,* ***Oedothea*** *vismiae*,* ***Ovulariopsis*** *passiflorae*;*

Passalora *bunchosiae*, P. caracasana*, P. centrosematis*, P. monninae*, P. securidacae*,* ***Pestalotia*** *palmarum,* ***Phaeoramularia*** *ciccaronei*, P. rauvolfiae*,* ***Phakopsora*** *randiae*,* ***Phoma*** *heterospora, P. sacchari* Gutner, *P. saccharina,* ***Phomatospora*** *oyedaeae*,* ***Phomatosporopsis*** *ingae*,* ***Phyllachora*** *cedralensis*, P. coutareae*, P. deminuta*, P. gelatinosa*, P. panici-olivacei*, P. pappophori*, P. paritii-tiliacei*, P. phari-latifoliae*, P. saurauiicola*, P. venezuelensis*,* ***Phyllosticta*** *capparidis*,* ***P.*** *manihot,* ***P.*** *manihoticola,* ***P.*** *manihotis,* ***P.*** *sacchari,* ***P.*** *saccharicola,* ***Pittierodothis*** *miconiae*,* ***Plasmopara*** *venezuelana*,* ***Polyrhizon*** *capparis*,* ***Prospodium*** *araguatum*, P. cumminsii*,* ***Pseudocercospora*** *annonae-squamosae*, P. blechi*, P. conocarpi*, P. durantae*, P. pachirae*, P. rhinocarpi*, P. samaneae*, P. struthanthi*, P. tovariae*,* ***Puccinia*** *chaetii*, P. mirandensis*, P. ponsae*, P. waltheriae*,* ***Pucciniopsis*** *anacardii*;*

Ragnhildiana *tranzschelii,* ***Ramularia*** *dioscoreae, R. ipomoeae,* ***Ravenelia*** *mirandensis*, R. verrucata* var. *apurensis*;*

Schiffnerula *tovarensis*, S. trematis*,* ***Septoria*** *araguata*, S. pittieriana*, S. versicolor,* ***Sphaceloma*** *manihoticola,* ***Sphaeropsis*** *sacchari,* ***Sporidesmium*** *dioscoreae,* ***Sporisorium*** *absconditum*, S. panici-hirticaulis*, S. trachypogonis-plumosi*,* ***Stenella*** *araguata*;*

Telimena *caudata*,* ***Tilletia*** *brachypodii-mexicani*,* ***Trabutia*** *saurauiae*;*

Uredo *combreti*, U. lycoseridis*, U. merremiae*, U. monochaeti*, U. paraphysata* F. Kern & Thurst. **, U. pehriae*, U. verruculosa*,* ***Uromyces*** *tripsaci*,* ***Ustilago*** *longiseti, U. shastensis;* and

Xenomeris *eucalypti**.

Acknowledgements

Marlyn Arana and Carla Figueroa are thanked for support in locating and photocopying literature and help in the search for information in electronic databases. The authors gratefully acknowledge José Carmine Dianese and David W. Minter for pre-submission review.

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